

**WAVEGUIDE FITTING****ABSTRACT OF THE DISCLOSURE**

A waveguide fitting for connecting in particular a rectangular waveguide to  
5 an elliptical waveguide can be assembled particularly easily and yet provides a  
very low-reflection connection if the fitting at least at one end is conductively  
provided with the first section of a sleeve of which the second section is designed  
to receive the end region of the waveguide to be connected and which is divided  
at least in this second section by narrow capillary-action axial slots into radially  
10 springing lamellae which, after insertion of the waveguide, abut against the outer  
wall thereof, and in addition the inner wall at least of the second section of the  
sleeve is designed to receive a solder deposit. To make the connection, it is then  
necessary only to heat the whole junction with an external heat source until the  
solder in the solder deposits melts and fills the gaps between the inner wall of this  
15 section of the sleeve and the outer wall of the waveguide.